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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/002,648	01/05/98	HORNE	D 042390.P5113

LM02/0727  
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EXAMINER

GHEBRETINSAE, T

ART UNIT PAPER NUMBER

2734

11

DATE MAILED:

07/27/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.  
09/002,648

Applicant(s)

HORNE

Examiner  
TEMESGHEN GHEBRETINSAE

Group Art Unit  
2734



☒ Responsive to communication(s) filed on Apr 19, 2000

☒ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claim

☒ Claim(s) 1-24 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-3, 5, 6, 8-16, and 19-24 is/are rejected.

☒ Claim(s) 4, 7, 17, and 18 is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☒ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

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### DETAILED ACTION

1. It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:

1. Application number (checked for accuracy, including series code and serial no.).
2. Group art unit number (copied from most recent Office communication).
3. Filing date.
4. Name of the examiner who prepared the most recent Office action.
5. Title of invention.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2 and 8, 11-15, 21-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Rosen (4,972,480).

Consider claims 1-2, 8, 11-15, 21-22 as claimed. Rosen disclose a communication system comprising the step of creating an encoded pseudo noise signal and spreading the information signal by modulating the information signal with the encoded pseudo noise signal; transmitting the signal and demodulating the information signal with the encoded PN code. The encoded pseudo noise signal is the modified part of the pseudo noise signal and corresponds to the user. ( See col.1, lines 23-43 and figs.3 and 4)

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***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3,5-6,9-10,16,19-20,23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rosen.

Rosen disclose the subject matter of the invention substantially as claimed. Rosen differs from the claimed invention in that he is silent in terms of the encoded pseudo noise code being same as the pseudo noise code with one bit inverted. However, it would have been obvious to one of ordinary skill in the art to design the encoded pseudo noise code of Rosen to be a **pseudo noise code with one bit inverted** since there is no new or unexpected result. Rosen also teaches demodulating the information signal with the encoded PN code and the pseudo noise signal corresponds to the user.

***Allowable Subject Matter***

6. Claims 4,7,17 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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*Response to Arguments*

7. Applicant's arguments filed 4/19/2000 have been fully considered but they are not persuasive.

Applicant argues that Rosen fails to teach the step of creating pseudo noise code that corresponds to the information to be transmitted. However, examiner disagrees with that conclusion. Because Rosen does disclose pseudo random code that corresponds to the information to be transmitted. This is a well known spread spectrum communication technique. If you have an information signal to be transmitted you encode the information in such way that only the receiver with the same pseudo noise code will extract the information. The information that is transmitted by Rosen is not the original information itself. It is the encoded information of the original information. (i.e. the encoded signal corresponding to the information signal) Claims 1, 11 and 21 read on any spread spectrum technique. (see Rosen col.4, line 24 to col.5, line 16)

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to T.Ghebretinsae whose telephone number is (703) 305-4777. The examiner can normally be reached on Monday-Friday from 8:30 a.m. to 6:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin, can be reached on (703) 305-4714. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-5091.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

T.Ghebretinsae

7/26/00.

  
TEMESGHEN GHEBRETINSAE  
PRIMARY EXAMINER